PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference	FOR FURTHER see Notification o	f Transmittal of International Search Report
S10020WO	ACTION (Form PC1/ISA/2	20) as well as, where applicable, item 5 below.
International application No.	International filing date (day/month/year)	(Earliest) Priority Date (day/month/year)
PCT/EP 03/13870 ·	08/12/2003	09/12/2002
Applicant		
RIETER TECHNOLOGIES AG		
This International Search Report has been according to Article 18. A copy is being tra	n prepared by this International Searching Authansmitted to the International Bureau.	nority and is transmitted to the applicant
This International Search Report consists	of a total of sheets.	
X It is also accompanied by	a copy of each prior art document cited in this	report.
Basis of the report		
	international search was carried out on the bases otherwise indicated under this item.	sis of the international application in the
the international search w Authority (Rule 23.1(b)).	as carried out on the basis of a translation of t	he international application furnished to this
b. With regard to any nucleotide an was carried out on the basis of the		ternational application, the international search
	nal application in written form.	
filed together with the inte	rnational application in computer readable form	n.
furnished subsequently to	this Authority in written form.	
	this Authority in computer readble form.	
the statement that the sub international application a	osequently furnished written sequence listing d is filed has been furnished.	loes not go beyond the disclosure in the
the statement that the info furnished	ormation recorded in computer readable form i	s identical to the written sequence listing has been
2. Certain claims were fou	nd unsearchable (See Box I).	
3. Unity of invention is lac	king (see Box II).	
4. With regard to the title,		
X the text is approved as su	ibmitted by the applicant.	
the text has been establis	shed by this Authority to read as follows:	
5. With regard to the abstract,		
X the text is approved as su		
the text has been establis within one month from the	shed, according to Rule 38.2(b), by this Author e date of mailing of this international search re	ity as it appears in Box III. The applicant may, port, submit comments to this Authority.
6. The figure of the drawings to be pub		1
X as suggested by the appl	icant.	None of the figures.
because the applicant fail	led to suggest a figure.	
because this figure better	characterizes the invention.	

INTERNATIONAL SEARCH REPORT

International Application No PCT/EP 03/13870

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A. CLASSIFICATION OF SUBJECT MATTER IPC 7 G10K11/168

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

 $\begin{array}{ll} \mbox{Minimum documentation searched (classification system followed by classification symbols)} \\ \mbox{IPC 7} & \mbox{G10K} \end{array}$

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
x	WO 98/18656 A (RIETER AUTOMOTIVE INT AG; ALTS THORSTEN (DE)) 7 May 1998 (1998-05-07) cited in the application claim 1 page 6, line 5 - line 37 figure 4	. 1–11
X	WO 02/094616 A (RIETER TECHNOLOGIES AG; O'REGAN DESMOND (GB); KHAN HAMEED S (US); FIS) 28 November 2002 (2002-11-28) claims 1,3-5 page 3, line 11 - line 22 page 4, line 1 - line 6 tables 1,2	1-6,8-11

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X Further documents are listed in the continuation of box C.	Patent family members are listed in annex.
Special categories of cited documents: A* document defining the general state of the art which is not considered to be of particular relevance E* earlier document but published on or after the international filing date C* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) O* document referring to an oral disclosure, use, exhibition or other means P* document published prior to the international filing date but later than the priority date claimed	 'T' later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention 'X' document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone 'Y' document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combined with one or more other such documents, such combination being obvious to a person skilled in the art. '&' document member of the same patent family
Date of the actual completion of the international search 31 March 2004	Date of mailing of the international search report 06/04/2004
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Authorized officer Girard, S

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INTERNATIONAL SEARCH REPORT

International Application No
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	ation) DOCUMENTS CONSIDERED TO BE RELEVANT		8.1
Category °	Citation of document, with indication, where appropriate, of the relevant passages		Relevant to claim No.
A	WO 99/35007 A (RIETER AUTOMOTIVE INT AG; ALTS THORSTEN (DE)) 15 July 1999 (1999-07-15) claims 1-3,16,17 page 6, line 1 - page 7, line 19		1

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FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box I.2

Claims Nos.: 1-11, in part

Present claim 1 relates to an "ultralight trim composite, comprising a first acoustically effective layer and a second underlay layer, characterised in that, for the balancing of the absorption and sound transmission behaviour of the composite, the first acoustically effective layer has an air flow resistance R between 500 and 10.000 Ns/m3, and has an area mass between 200 and 3.000g/m2; the second underlay layer has a very low compression force deflection modulus, i.e. a stiffness value Sd in the range between 100 and 100.000 Pa; and, in addition, comprises an acoustically transparent, very thin and light weight film between the second underlay layer and the first acoustically effective layer, which film interacts with this underlay layer in the manner of an acoustic foil absorber".

In view of this wording, several objections under Art.5 and 6 PCT arise to such an extent that they render a meaningful search of said claim 1 impossible. The reasons are the following:

(i) Present claim 1 does not refer to the materials constituting the trim composite, but instead is only defined by ranges of values for certains properties or test results. in fact, it relates to a product defined only by reference to desirable characteristics or properties such as the air flow resistance and area mass of the first layer and the stiffness value of the second underlay layer. Thus, it covers all products having this characteristic or property, whereas the application provides support within the meaning of Article 6 PCT and disclosure within the meaning of Article 5 PCT for only a very limited number of such products; at present, the features responsible for the desired properties, i.e. the essential features, do not appear in said claim. Thus, the claims so lack support, and the application so lacks disclosure, that a meaningful search over the whole of the claimed scope is impossible.

(ii) Besides, the use of the compression force deflection modulus parameter in the present context is considered to lead to a lack of clarity within the meaning of Article 6 PCT. It is impossible to compare the parameter the applicant has chosen to employ with what is set out in

the prior art.

(iii) Independent of the above reasoning, claim 1 also lacks clarity (Article 6 PCT) in that an attempt is made to define the product by reference to several results to be achieved. Again, this lack of clarity in the present case is such as to render a meaningful search over the

whole of the claimed scope impossible.

(iv) At last, claim 1 defines the trim laminate using many vague terms and expressions, such as "ultralight", "acoustically effective", "very low", "very thin", "light weight", "interacts with this underlay in the manner of an acoustic foil absorber", by reference to a desirable characteristic or property. These terms have either a relative or a very broad meaning, and can in any case not be used to distinguish the present invention over te prior art. Thus, they lead to a lack of clarity within the meaning of Art.6 PCT.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Consequently, the search has been carried out for those parts of the claims which appear to be clear, supported and disclosed, namely those parts relating to the trim composite comprising a first layer made from a fibrous layer, a second foam underlay, and an acoustically transparent film made from PVOH, PET, EVA, PE, PP foils or a PE/PA dual foil as disclosed in the decription on page 2, lines 23-25, and page 3, lines 20-25.

The applicant's attention is drawn to the fact that claims relating to inventions in respect of which no international search report has been established need not be the subject of an international preliminary examination (Rule 66.1(e) PCT). The applicant is advised that the EPO policy when acting as an International Preliminary Examining Authority is normally not to carry out a preliminary examination on matter which has not been searched. This is the case irrespective of whether or not the claims are amended following receipt of the search report or during any Chapter II procedure. If the application proceeds into the regional phase before the EPO, the applicant is reminded that a search may be carried out during examination before the EPO (see EPO Guideline C-VI, 8.5), should the problems which led to the Article 17(2) declaration be overcome.

International application No. PCT/EP 03/13870

INTERNATIONAL SEARCH REPORT

Box I	Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)
This Inte	ernational Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
1.	Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
2. X	Claims Nos.: 1-11, in part because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically: see FURTHER INFORMATION sheet PCT/ISA/210
з. 🗌	Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box II	Observations where unity of invention is lacking (Continuation of item 2 of first sheet)
This Inte	rnational Searching Authority found multiple inventions in this international application, as follows:
1.	As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2.	As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3.	As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4.	No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
Remark	on Protest The additional search fees were accompanied by the applicant's protest. No protest accompanied the payment of additional search fees.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No
PCT/EP 03/13870

Patent document cited in search report	l	Publication date		Patent family member(s)	Publication date
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